

Arizona State Trauma Registry (ASTR)
2008-2014 ASTR Data Elements List for Researchers
(For ED/Hospital Arrival Dates 1/1/2008 - 12/31/2014)

Designated trauma centers are required to submit data to ASTR. Non-designated hospitals may submit voluntarily.
 Levels I, II and III Trauma Centers must submit the Full ASTR data set.
 Level IV Trauma Centers and non-designated facilities may choose to submit a Full or Reduced data set.

Note: Major changes were made to ASTR data element requirements and definitions, effective for ED/Hospital Arrival Dates 1/1/2008 forward.
Please refer to the ASTR 2005-2007 data dictionary for previous data submission requirements.

Data Elements Found in ASTR Database	Data Elements found in ASTR FULL Data Set	Data Elements found in ASTR REDUCED Data Set
A = Autofilled; R = Required; V = Voluntary		
DEMOGRAPHIC DATA ELEMENTS		
Reporting Facility Site ID	R	R
Patient Account Number - auto-filled in ASTR and hospital databases	R	R
Registration Number	R	R
Medical Record Number	R	R
ASTR Reporting Year	A	A
Hospital Admission Date	R	R
Admission Status	R	R
Patient Last Name	R	R
Patient First Name	R	R
Patient Middle Initial	R	R
Social Security Number	R	R
Date of Birth	R	R
Age	R	R
Units of Age	R	R
Age (Years) - auto-filled in ASTR database only	R	R
Age Categories	A	A
Gender	R	R
Race (Primary)	R	R
Race (Secondary)	V	
Ethnicity	R	R
Street Address of Residence (optional)	V	
Zip Code of Residence	R	
" +4" Zip Code of Residence extension (optional)	V	
City of Residence	R	
County of Residence	R	
State of Residence	R	R

Country of Residence	R	
Alternate Home Residence	R	
Co-Morbid Conditions (Pre-Existing)	R	
State Unique ID - auto-filled in ASTR and hospital databases	A	A
Reporting Facility Trauma Designation Level - auto-filled in ASTR database	A	A
Reporting Facility ADHS Number - auto-filled in ASTR database	A	A
Reporting Facility Zip Code - auto-filled in ASTR database	A	A
INJURY DATA ELEMENTS		
Injury Date	R	R
Injury Time	R	R
Actual versus Estimated Injury Time	R	
Injury Location ICD-9-CM E-code (E849)	R	R
Street Location of Injury	R	
Zip Code of Injury	R	R
"+4" Zip Code of Injury extension (optional)	V	
City of Injury	R	R
County of Injury	R	
State of Injury	R	
Country of Injury	V	
Primary ICD-9-CM E-code Injury Descriptor	R	R
CDC Mechanism/Cause Category for Primary E-code - auto-filled in ASTR database only	A	A
CDC Intent/Manner Category for Primary E-code - auto-filled in ASTR database only	A	A
Additional ICD-9-CM E-code Injury Descriptor	R	
CDC Mechanism/Cause Category for Additional E-code - auto-filled in ASTR database only	A	
CDC Intent/Manner Category for Additional E-code - auto-filled in ASTR database only	A	
Activity ICD-9-CM E-code	V (2011 forward)	
Trauma Type	R	V
Work-Related	R	
Patient Occupational Industry	R	
Patient Occupation	R	
Position in Vehicle / Vehicle Type	R	
Injury Event Details	V (2009 forward)	
Protective Devices	R	R
Child Specific Restraint	R	
Airbag Deployment Details	R	
Safety Equipment Issues	R	
Report of Physical Abuse	V (2014 forward)	V (2014 forward)
Investigation of Physical Abuse	V (2014 forward)	V (2014 forward)
Caregiver at Discharge	V (2014 forward)	V (2014 forward)
PREHOSPITAL/TRANSPORT DATA ELEMENTS		
Transport Type	R	R
Transport Mode (Into Reporting Facility)	R	R
Other Transport Modes	R	
Prehospital EMS Agency	R	V (2012 forward)

Run Sheet Available?	R	
Run Sheet Date	R	
Run Sheet Number	V (2009 forward)	
Transported From (Origin)	R	R
Transported From (Referring Hospital)	R	
Date EMS Provider Notified	R	
Time EMS Provider Notified	R	
Date EMS Provider Left for Scene	R	
Time EMS Provider Left for Scene	R	
Date EMS Provider Arrived at Scene	R	
Time EMS Provider Arrived at Scene	R	
Date of EMS Patient Contact	R	
Time of EMS Patient Contact	R	
Date EMS Provider Departed Scene	R	
Time EMS Provider Departed Scene	R	
Date of Arrival at Destination	R	
Time of Arrival at Destination	R	
EMS Destination	R	
EMS Agency Response Time (Minutes) - auto-calculated by hospital databases	R	
EMS Agency Scene Time (Minutes) - auto-calculated by hospital databases	R	
Transport Time - EMS Agency Scene to Destination (Minutes) - auto-calculated by hospital databases	R	
Total EMS Agency Time (Minutes) - auto-calculated by hospital databases	R	
System Access (Inclusion Criteria)	R	V
Triage Criteria	R	R
Date of Measurement of Vital Signs	R	
Time of Measurement of Vital Signs	R	
Initial Field Pulse Rate	R	
Initial Field Respiratory Rate	R	
Initial Field Oxygen Saturation	R	
Field Airway Management Details	R	
Field Intubation Status	R	
Field Paralytic Agent in Effect	R	
Initial Field Systolic Blood Pressure	R	
Initial Field GCS – Eye Opening	R	
Initial Field GCS – Verbal Response	R	
Initial Field GCS – Motor Response	R	
Initial Field GCS – Total	R	
Field Revised Trauma Score - autocalculated by hospital databases	R	
REFERRING/TRANSFER HOSPITAL DATA ELEMENTS		
Interfacility Transfer?	R	
Date of Arrival at First Referring Hospital	R	
Time of Arrival at First Referring Hospital	R	
Date of Transfer from First Referring Hospital	R	

Time of Transfer from First Referring Hospital	R	
Transferring Facility (First Referring)	R	
Length of Stay in First Referring Hospital (Hours) - auto-calculated by hospital database or can be manually entered	R	
Length of Stay in First Referring Hospital (Minutes) - auto-calculated in ASTR database only	R	
Destination Facility (from First Referring)	R	
Date of Arrival at Second Referring Hospital	R	
Time of Arrival at Second Referring Hospital	R	
Date of Transfer from Second Referring Hospital	R	
Time of Transfer from Second Referring Hospital	R	
Transferring Facility (Second Referring)	R	
Length of Stay in Second Referring Hospital (Hours) - auto-calculated by hospital database or can be manually entered	R	
Length of Stay in Second Referring Hospital (Minutes) - auto-calculated in ASTR database only	R	
Destination Facility (from Second Referring)	R	
Vital Signs Designation (If First or Second Referring)	R	
Initial Respiratory Rate in Referring Facility	R	
Initial Systolic Blood Pressure in Referring Facility	R	
Initial GCS Total in Referring Facility	R	
Initial Revised Trauma Score in Referring Facility	R	
ED/TRAUMA DATA ELEMENTS		
ED/Hospital Arrival Date	R	R
ED/Hospital Arrival Time	R	R
ED Exit Date	R	R
ED Exit Time	R	R
Length of Stay in ED (Hours) - auto-calculated by hospital database or can be manually entered	R	R
Length of Stay in ED (Minutes) - auto-calculated in ASTR database only	R	R
Complete Trauma Team Arrival Time	R	
Signs of Life (at arrival to reporting hospital)	V (2011 forward)	V (2011 forward)
ED Discharge Disposition	R	R
ED Discharge Destination Hospital	R	R
ED Discharge Transport Agency	R	
ED Discharge Transfer Reason	R	
Transfer Delays		V (2013 forward - Level III and IV only)
ED/Hospital Initial Pulse Rate	R	
ED/Hospital Initial Respiratory Rate	R	
ED/Hospital Initial Respiratory Assistance	R	
ED/Hospital Initial Oxygen Saturation	R	
ED/Hospital Initial Supplemental Oxygen	R	

ED/Hospital Intubation Status	R	
ED/Hospital Paralytic Agent in Effect	R	
ED/Hospital Initial Systolic Blood Pressure	R	
ED/Hospital Initial Height	V (2013 forward)	
ED/Hospital Initial Weight	V (2013 forward)	
ED/Hospital Initial GCS – Eye Opening	R	
ED/Hospital Initial GCS – Verbal Response	R	
ED/Hospital Initial GCS – Motor Response	R	
ED/Hospital Initial GCS – Total	R	V (2012 forward)
ED/Hospital Initial GCS Assessment Qualifiers	R	
ED/Hospital Initial Temperature	R	
ED/Hospital Initial Units of Temperature	R	
ED/Hospital Initial Temperature Route	R	
ED/Hospital Initial Revised Trauma Score - auto-calculated by hospital databases	R	
Alcohol Use Indicator	R	V (2012 forward)
Blood Alcohol Content (mg/dl)	R	V (2012 forward)
Drug Use Indicator	R	V (2012 forward)
Toxicology Substances Found	R	V (2012 forward)
DISCHARGE DATA ELEMENTS		
Hospital Discharge Date	R	R
Hospital Discharge Time	R	R
Hospital Admission Length of Stay (Days) - auto-calculated by hospital database or can be manually entered	R	R
Total Length of Hospital Stay – ED plus Admission (Days) - auto-calculated by hospital database	A	A
Final Outcome – Dead or Alive	R	R
Total ICU Length of Stay (Days)	R	R
Total Ventilator Days	R	
Hospital Discharge Disposition	R	R
Hospital Discharge Destination Hospital	R	R
Hospital Discharge Transport Agency	R	
Hospital Discharge Transfer Reason	R	
Autopsy Identification Number	R	
State Patient (Yes/No?) - determines if record exports to ASTR	R	
Injury Diagnoses – ICD-9-CM N-codes (diagnosis codes are entered and the fields below auto-calculate based on a software vendor program)	R	R
Severity Code(s) for ICD-9-CM Diagnosis	A	A
Body Region(s) of Injury for ICD-9-CM Diagnosis	A	A
Injury Severity Score for ICD-9-CM Diagnoses	A	A
AIS 2005 Six-Digit Injury Identifier(s)* (diagnosis codes are entered and the fields below auto-calculate)	*Required for Level I Trauma Centers Only	
AIS Severity Code(s)*		
AIS Body Region(s) of Injury*		
Injury Severity Score for AIS 2005 Codes*		

Probability of Survival - auto-calculated by hospital databases	R	
ED/Hospital Procedure Location	R	
ED/Hospital Procedure Start Date	R	
ED/Hospital Procedure Start Time	R	
ED/Hospital ICD-9-CM Procedure Codes	R	
Hospital Complications	R	
Primary Method of Payment	R	V (2012 forward)
Secondary Method of Payment	R	
Total Hospital Charges	R	V (2012 forward)
Total Reimbursements	R	V (2012 forward)